

DPD-5228-59

Copy 2 of 3

31 July 1959

MEMORANDUM FOR THE RECORD

SUBJECT: Trip Report - [REDACTED]

1. During the period of 12 through 16 July 1959 the undersigned visited [REDACTED] and test site to investigate and review photographic quality obtainable with the J-75 engine.

2. Personnel contacted - [REDACTED] and [REDACTED] at the test site.

3. Camera Vibration - A review of photography made with B Configuration, SN-14, flown in articles 677 and 691, reveals that the J-75 is creating sufficient vibration to degrade the photography approximately 50 per cent when compared to our present standard. Attached are samples of photography showing the degradation. It should be noted in Attachment #3 that there is considerable improvement in the photography when the J-75 was operated at about 85 per cent rotor speed.

4. HYCON was directed to investigate vibration characteristics and design and fabricate the necessary vibration insulators. This work will probably be carried out in three (3) phases as follows:

- a. Phase I - Investigation and evaluation of vibration characteristics.
- b. Phase II - Engineering design and fabrication of prototype.
- c. Phase III - Fabrication and test of mod. kits.

HYCON also was authorized to contact [REDACTED] to aid in design of the vibration insulators.

25 YEAR RE-REVIEW

5. Although the vibration insulators may not be ready for installation at the time of deployment of J-73 aircraft, it is felt that it will be far enough along that they can be shipped to the Detachments and be installed prior to operational use. HECOM has indicated they will require one (1) additional engineer in the M & O facilities for the duration of the vibration study. They will forward Engineering Study Change Proposal and Engineering Change Proposal to cover the above reference work.

5. Improved 732 Shutter - HECOM has just completed tests for the 732 shutter with new improved plates and the shutter completed 102,273 cycles with only minor adjustments. No replacement parts were required.



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Development Branch

ATTACHMENTS:

- #1 - Contact Print
- #2 - Contact Print
- #3 - Contact Print

DPD-3D/ [redacted] [redacted]

Distribution:

- Orig & 2 - [redacted]
- 3 - A/CH/DPD
- 4 - Opns - NSQ
- 5 - Contracts
- 6 - Materiel
- 7 - DS - LEM
- 8 - RI

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